

<b>Change Number</b> M-16-99-02 Revision 1	<b>Federal Facility Agreement and Consent Order</b> <b>Change Control Form</b> <small>Do not use blue ink. Type or print using black ink.</small>	<b>Date</b> January 26, 2000									
<b>Originator</b> D. C. Smith DOE/RICHLAND OPERATIONS-ENVIRONMENTAL RESTORATION PROJECT		<b>Phone</b> (509) 372-1544									
0052586											
<b>Class of Change</b> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> I - Signatories</span> <span><input checked="" type="checkbox"/> II - Executive Manager</span> <span><input type="checkbox"/> III - Project Manager</span> </div>											
<b>Change Title</b> Revise Group 4 TPA Milestones 1) M-16-10A, Initiate Remedial Action in the 100-KR-1 Operable Unit 2) M-16-13A, Initiate Remedial Action in the 100-FR-1 Operable Unit 3) M-16-13B, Complete 16 waste sites and the process effluent pipelines in 100-FR-1 4) M-16-26C, Complete 10 waste sites and the process effluent pipelines in 100-HR-1											
<b>Description/Justification of Change</b> <p>The 100-FR-1, 100-HR-1, and 100-KR-1 TPA Milestones listed above are applicable to Hanford's Environmental Restoration Program for the 100 Area Remedial Action. The contracting strategy developed and implemented, to remediate the waste sites contained in these milestones, was based on combining the high priority liquid waste sites from H, F, and K (Group 4) into one contract (i.e. one contractor would perform all remediation). This was done to create economy of scale, reduce proposal preparation costs, and streamline the overall process. The unit rate pricing for this contract was based upon the assumption that active waste site excavation in one operable unit would be completed prior to initiating the next operable unit activity. This strategy is also consistent with the current capacity of the ERDF transportation and disposal infrastructure and maintains DOE's intent to have ongoing remediation continuing in the 100 Area. The subcontract strategy provides the government with the most economical method to achieve the remediation activities. As a result of this contract the schedule/sequence for accomplishing these milestones is as follows (Group 4 scope only):</p> <ol style="list-style-type: none"> <li>1. H Area excavation will be completed first</li> <li>2. F Area excavation will begin after completion of H area excavation</li> <li>3. H Area CVP process and backfill will begin after completion of H excavation</li> <li>4. F Area CVP process and backfill will begin after completion of F excavation</li> <li>5. K Area excavation will begin after completion of F excavation</li> <li>6. K Area CVP process and backfill will begin after completion of K excavation</li> </ol>											
<div style="display: flex; justify-content: center; align-items: center;"> <div style="text-align: right; margin-right: 20px;"> <b>RECEIVED</b>            FEB 25 2000         </div> <div style="text-align: center;"> <b>EDMC</b> </div> </div>											
<b>Description/Justification of Change Continued on Page 2</b>											
<b>Impact of Change</b> Milestone initiation and completion dates require changes. No other impacts can be identified. The intention is to have ongoing remediation continuing in the Hanford 100 Area Operable Units.											
<b>Affected Documents</b> Hanford Federal Facility Agreement and Consent Order-Action Plan. Remedial Design Report/Remedial Action Work Plan for the 100 Area.											
<b>Approvals</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%; vertical-align: bottom;"> <div style="text-align: center;">             DOE         </div> </td> <td style="width: 20%; text-align: center; vertical-align: bottom;"> <div style="text-align: center;">             1/28/00              Date           </div> </td> <td style="width: 40%; text-align: center; vertical-align: bottom;"> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved         </td> </tr> <tr> <td style="vertical-align: bottom;"> <div style="text-align: center;">             EPA         </div> </td> <td style="text-align: center; vertical-align: bottom;"> <div style="text-align: center;">             2/3/00              Date           </div> </td> <td style="text-align: center; vertical-align: bottom;"> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved         </td> </tr> <tr> <td style="vertical-align: bottom;"> <div style="text-align: center;">             Ecology         </div> </td> <td style="text-align: center; vertical-align: bottom;"> <div style="text-align: center;">             2/8/00              Date           </div> </td> <td style="text-align: center; vertical-align: bottom;"> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved         </td> </tr> </table>			<div style="text-align: center;">             DOE         </div>	<div style="text-align: center;">             1/28/00              Date           </div>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<div style="text-align: center;">             EPA         </div>	<div style="text-align: center;">             2/3/00              Date           </div>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<div style="text-align: center;">             Ecology         </div>	<div style="text-align: center;">             2/8/00              Date           </div>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
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TPA milestone M-16-26A "Initiate Remedial Action in the 100-HR-1 Operable Unit" was extended by six months (reference TPA change notice M-16-98-02-[9/30/98 to 3/31/99]). The associated completion milestone M-16-26C, for 100-H-1, was not extended at that time. In addition to the six-month delay, the remediation at the 100-HR-1 Operable Unit currently has encountered scope growth due to plumes in those sites that have been excavated. This is consistent with other remediation activities in the 100 Areas. Therefore as a result of the delayed start and the additional scope, the forecast date for completion of the liquid waste sites and process effluent pipelines in the 100-HR-1 Operable Unit is being extended.

Modify completion date for M-16-26C

M-16-26C	Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area.	5/30/01
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TPA milestones M-16-13A, "Initiate Remedial Action in the 100-FR-1 Operable Unit" and M-16-13B, "Complete remediation and backfill of 16 liquid waste sites and process effluent pipelines in the 100-FR-1..." are impacted as a result of the 100-HR-1 delayed start and scope growth (plumes). Therefore, as a result of the delayed start and the additional scope at the 100-HR-1 Operable Unit, the forecast dates for initiation and completion of the liquid waste sites and process effluent pipelines in the 100-FR-1 Operable Unit are being extended. The extension also incorporates a change in production rates (durations) at 100-FR-1. The production rate change, is based on comparing the actual durations (for excavation, verification/closeout, and backfill) from the previous 4 years to the assumptions made during the preparation of the original TPA milestones. The original durations were unachievable. The new production rates add an additional 6 months to the baseline schedule. Therefore, as a result of these changes the milestone dates for M-16-13A and M-16-13B are being extended.

Modify completion date for M-16-13A and M-16-13B

M-16-13A	Initiate Remedial Action in the 100-FR-1 Operable Unit	9/29/00
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M-16-13B	Complete Remediation and Backfill of 16 Liquid Waste Sites and Process Effluent Pipelines in the 100-FR-1 and 100-FR-2 Operable Units as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area	10/29/04
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TPA milestone M-16-10A, "Initiate Remedial Action in the 100-KR-1 Operable" is impacted as a result of the 100-HR-1 delayed start plus scope growth and duration changes at the 100-FR-1. Therefore, as a result of these changes the forecast date for initiation remediation of the liquid waste sites in the 100-KR-1 Operable Unit is being extended.

Modify completion date for M-16-10A


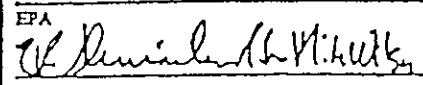

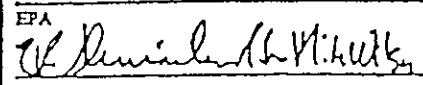

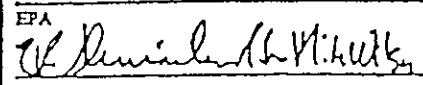
M-16-10A	Initiate Remedial Action in 100-KR-1 Operable Unit	8/01/03
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Note: See Attachments 1 and 2 for additional details.

Attachments:

1. TPA Change Notice M-16-98-02
2. Schedule

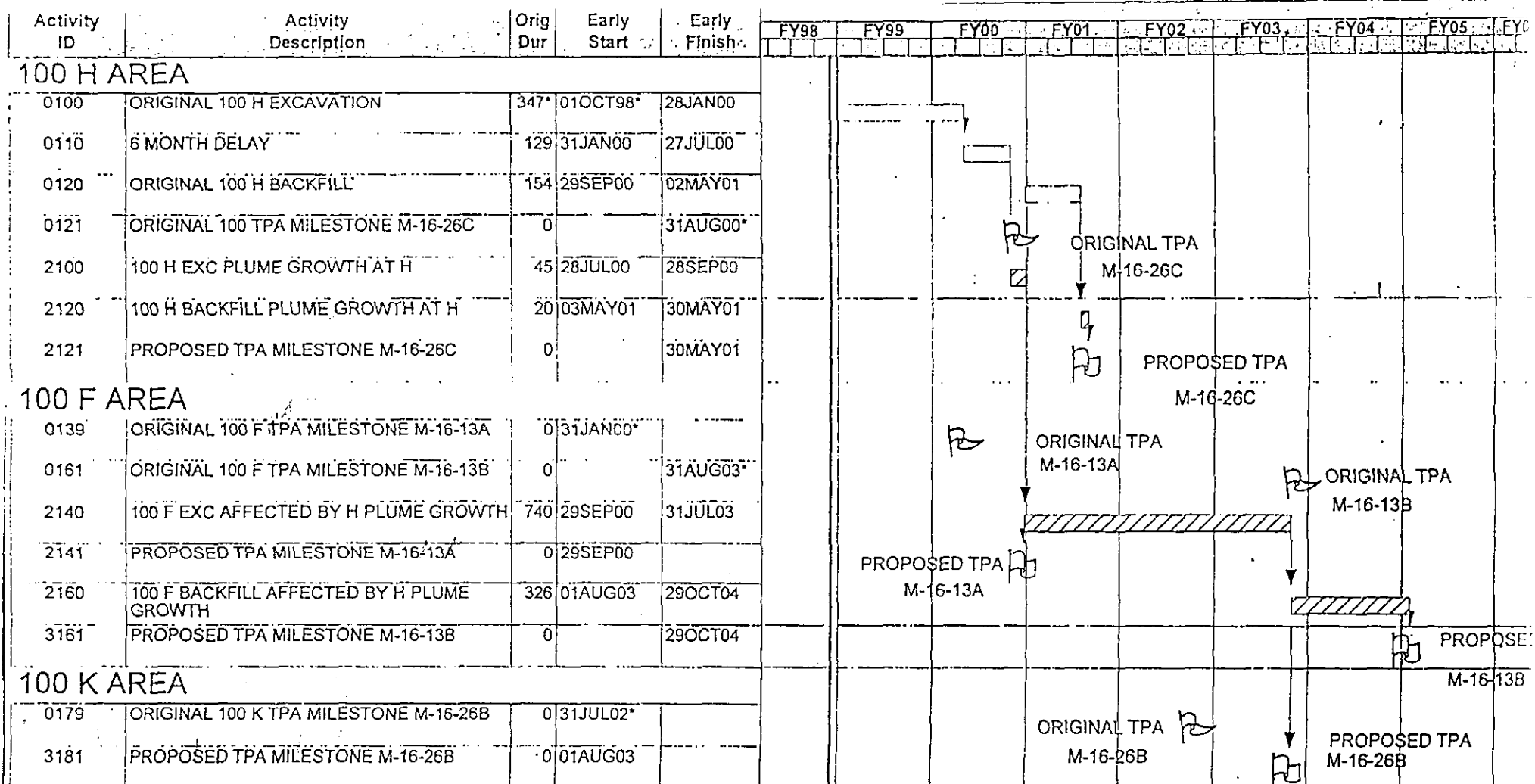
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Change Number M-16-98-02	Federal Facility Agreement and Consent Order Change Control Form <small>Do not use blue ink. Type or print using black ink.</small>	Date June 8, 1998 6/23/98																								
Originator G. I. Goldberg DOE/RICHLAND OPERATIONS-ENVIRONMENTAL RESTORATION PROJECT		Phone (509) 376-9552																								
Class of Change <input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager																										
Change Title Extend milestone date M-16-26A.																										
Description/Justification of Change In FY96 interim milestones were established for Remediation and Backfill of the original 37 liquid waste sites listed in the 100 Area ROD in the 100-BC-1, 100-DR-1, and 100-HR-1 Operable Units (OU's). The predicted volumes of contaminated material at 100-BC-1 and 100-DR-1 have increased substantially and the 100 Area ROD has been amended to include additional liquid waste sites in 100-BC-1, 100-DR-1, and 100-HR-1, plus sites in 100-BC-2, 100-DR-2, 100-FR-1, 100-FR-2 and 100-KR-1, requiring the existing interim milestone date to be extended.  Modify milestone date for M-16-26A ( <del>strike through</del> indicates text to be removed, <u>shading</u> indicates text to be added)  M-16-26A      Initiate Remedial Action 100-HR-1 Operable Unit.																										
Impact of Change Contaminated volumes have increased from the time the milestones were established, while the rate of remediation (250,000 more tons to ERDF by the end of FY98) have also increased. The addition of the 100 Area ROD Amendment sites to the milestones will ensure all liquid waste sites are remediated prior to demobilization from an Operable Unit.																										
Affected Documents Hanford Federal Facility Agreement and Consent Order Action Plan																										
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Ecology	Date																									

Attachment #1

1 of 2

TPA Change Form  
M-16-98-02, R1



Project Start: 03DEC97  
 Project Finish: 29OCT04  
 Data Date: 01SEP98  
 Run Date: 26JAN00

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PROPOSED TPA MILESTONE SCHEDULE  
 Attachment #2 REV 1  
 TPA Change Form M-99-16-02

Sheet 1 of 1  
 Date: \_\_\_\_\_  
 No plume growth at F included  
 Revision: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 Approved: \_\_\_\_\_